Title (en)
SYSTEMS AND METHODS FOR PRODUCING A LIGHT FIELD FROM A DEPTH MAP

Title (de)
SYSTEME UND VERFAHREN ZUR ERZEUGUNG EINES LICHTFELDES AUS EINER TIEFENKARTE

Title (fr)
SYSTÈMES ET PROCÉDÉS DE PRODUCTION D'UN CHAMP LUMINEUX À PARTIR D'UNE CARTE DE PROFONDEUR

Publication
**EP 4165586 A1 20230419 (EN)**

Application
**EP 21737891 A 20210611**

Priority
• US 202063038639 P 20200612
• US 2021037005 W 20210611

Abstract (en)
[origin: US2021390722A1] A system includes an electronic display, a computer processor, one or more memory units, and a module stored in the one or more memory units. The module is configured to access a source image stored in the one or more memory units and determine depth data for each pixel of a plurality of pixels of the source image. The module is further configured to map, using the plurality of pixels and the determined depth data for each of the plurality of pixels, the source image to a four-dimensional light field. The module is further configured to send instructions to the electronic display to display the mapped four-dimensional light field.

IPC 8 full level
**G06T 1/00** (2006.01)

CPC (source: EP US)
**G06T 7/557** (2016.12 - US); **G06T 7/593** (2016.12 - EP); **H04N 13/232** (2018.04 - EP); **H04N 13/271** (2018.04 - EP US);
G06T 2200/08 (2013.01 - EP); G06T 2207/10024 (2013.01 - EP); G06T 2207/10028 (2013.01 - US); G06T 2207/10052 (2013.01 - EP);
H04N 13/111 (2018.04 - EP); H04N 2013/0081 (2013.01 - EP)

Citation (search report)
See references of WO 2021252892A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
**US 2021390722 A1 20211216**; EP 4165586 A1 20230419; WO 2021252892 A1 20211216

DOCDB simple family (application)
**US 202117345436 A 20210611**; EP 21737891 A 20210611; US 2021037005 W 20210611